

Notice of Allowability

Application No.

10/702,555

Examiner

John A. McPherson

Applicant(s)

HUANG ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Application filed 11/7/03.
2. ☒ The allowed claim(s) is/are 1-8.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 11/7/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joe McKinney Muncy on 5/26/06.

The application has been amended as follows:

In claim 1, line 1, "the" has been deleted, and --an-- substituted therefore.

In claim 2, line 2, the second occurrence of "the" (i.e. before the word *electroforming*) has been deleted, and --an-- substituted therefore.

Claims 9-12, drawn to a non-elected invention with traverse, have been canceled.

Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 7,014,987 discloses a manufacturing method of a liquid jet head comprising the steps of forming a separating layer on a substrate, forming a first coat resin layer on the separating layer, exposing the first coat resin layer utilizing a mask to prepare a latent image of liquid discharge ports, forming and patterning a soluble resin layer,

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forming a second coat resin layer on the patterned soluble resin layer, forming bond portions on the second coat resin layer, bonding a piezoelectric element to the bond portions, eluting the separating layer to separate the substrate, eluting the latent image to form the liquid discharge ports, eluting the soluble pattern resin layer to form liquid flow paths, bonding liquid supply members, and electrically bonding a signal line and a common line for driving the piezoelectric element. See column 7, line 15 to column 9, line 20.

US 5,229,785 discloses a method of manufacturing a thermal inkjet printhead having a plastic orifice plate comprising the steps of providing a dummy substrate, forming a plastic orifice member on the dummy substrate, forming an insulating barrier layer provided with a plurality of firing chambers on the plastic orifice plate, depositing a thin film resistor substrate provided with a plurality of heater resistors on the barrier layer, and removing the dummy substrate from the composite structure using photoresist lift off techniques. See the abstract.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

In a manufacturing method of a component for an inkjet printhead comprising the steps of providing a substrate; forming a sacrifice layer on a surface of the substrate; forming a first photosensitive polymer layer on the structure provided above; forming more than one orifice on the first photosensitive layer by photolithography, the orifices allowing a fluid to flow through; and removing the sacrifice layer so that the

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photosensitive polymer layer departs from the substrate, the prior art does not teach or suggest the method further comprising the steps of forming a metal conductive circuit on the sacrifice layer, such that the first photoresist layer is formed on the metal conductive circuit, and forming more than one through hole on the first photosensitive layer by photolithography, with the through holes being exposed from a lead end of the metal conductive circuit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

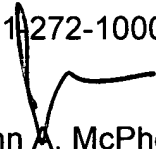
Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. McPherson whose telephone number is (571) 272-1386. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



John A. McPherson
Primary Examiner
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JAM
5/26/06